

1       Introducing a plurality of fundamental cylindircal telescopic  
2       units to create multi-compartment separation chamber so that each  
3       compartment can be seen as separated cyclone. All those according  
4       the idea generated in Patent No. 6071424 and Application No.  
5       10/131425 filed April 23, 2002.

6       2.    The improved apparatus according to Claim 1 introducing  
7       multi-compartment separation chamber so it can be designed in  
8       cylindrical telescopic cyclone housing as well as in conical  
9       cyclone housing. *or in another kind of housing.*

10       3.   The improved apparatus according to Claim 1 introducing  
11       the fundamental telescopic unit comprising two different dimensions  
12       cylinders axially connected with passage between them made of the  
13       same material like cyclone housing or as replaceable liners.

14       4.   The improved apparatus according to Claim 1 introducing  
15       the longitude axial wall section of the fundamental unit comprising  
16       the angle  $\alpha$  between upper wall stretch and longitude axis, the  
17       angle  $\beta$  between lower wall stretch and longitude axis, and the  
18       interior angle  $\gamma$  between upper and lower stretches.

19       5.   The improved apparatus according to Claim 1 as  
20       Embodiment1 introducing for a given fundamental unit measurements  
21       comprising such Set. No.1 of angle  $\alpha$   $\beta$   $\gamma$  so that the unit upper  
22       portion is predominately cylindrical and lower portion is conical

1 Then to obtain the best cyclone performances.

2 6. The improved apparatus according to Claim 1 as Embodiment2  
3 introducing for a given fundamental unit measurements comprising  
4 the Set No.2 of angles  $\alpha, \beta, \gamma$  that the unit is of all long one conical  
5 shape to obtain the worse cyclone performances.

6 7. The improved apparatus according to Claim 1 as  
7 Embodiment1 introducing for a given fundamental unit measurement  
8 comprising such Set No.3 of the angles  $\alpha, \beta, \gamma$  to be between Set  
9 No.1 and Set No.2, that the unit consists of two conical portions,  
10 upper one and lower one. Then the decreased cyclone performances  
11 follow growing the angle  $\alpha$  .

12 8. The improved apparatus according to Claim 5, 6 and 7  
13 introducing the suitable replacable liners to be put in cyclone  
14 housing to get the chosen shape of each compartment, if cyclone  
15 housing is not formed finally as desired to get the cylindrical  
16 telescopic multi-compartment separation chamber.